SYSTEM FOR MODIFYING THE FUNCTIONALITY OF COMPILED COMPUTER CODE AT RUN-TIME

ABSTRACT OF THE DISCLOSURE

A system whereby a computer program can be transformed so that one or more of the program's symbolic references are made suitable for redirection. Once provided with redirectable symbols, the functionality of the program is easily changed at a later time, such as at start-up time or at run-time. A first phase converts a pre-existing computer program so that symbols can be re-directed. This first phase also generates auxiliary files for use in a later phase. A second phase is where the converted computer program is loaded into, and executed upon, a user's computer. A third phase is where the original computer program functionality is modified. The modification occurs at a highlevel and can be performed easily by someone who was not involved in the programming of the original program. Modifications are simplified to the extent that even nonprogrammers can change the functionality of the computer program. This third phase uses the auxiliary file generated in the first phase. A fourth phase is where the modified functionality is loaded into an end-user's computer and is executed in conjunction with the converted program. Other features of the invention include the use of a table to facilitate symbol redirection and automatic identification of symbols and generation of auxiliary files and intermediary files to accomplish compilation steps necessary for program and add-on module builds.

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